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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/719,399	11/21/2003	Christopher T. Maxwell	TI-36943	2566		
23494	7590 08/31/2005		EXAM	EXAMINER		
TEXAS INSTRUMENTS INCORPORATED			LAM, TUAN THIEU			
POBOX 655 DALLAS, TX	474, M/S 3999 K 75265		ART UNIT PAPER NUMBER			
•			2816			
			DATE MAILED: 08/31/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	App	ication No.	Applicant(s)				
Office Action Summary		19,399	MAXWELL, CHRISTOPHER T.				
		niner	Art Unit				
_	Tuar	n T. Lam	2816				
The MAILING DATE of this cor Period for Reply	nmunication appears o	on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERITHE MAILING DATE OF THIS COM - Extensions of time may be available under the proafter SIX (6) MONTHS from the mailing date of the lifthe period for reply specified above is less than lif NO period for reply is specified above, the maxiful Failure to reply within the set or extended period for Any reply received by the Office later than three mearned patent term adjustment. See 37 CFR 1.70	MUNICATION. visions of 37 CFR 1.136(a). In s communication. thirty (30) days, a reply within t num statutory period will apply or reply will, by statute, cause t onths after the mailing date of	n no event, however, may a reply be time the statutory minimum of thirty (30) day and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
Status							
1) Responsive to communication	s) filed on <i>25 July 200</i>	05 .					
2a) This action is FINAL .	2b)⊠ This action is non-final.						
	, _						
Disposition of Claims							
4a) Of the above claim(s) 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-13,15 and 16</u> is/are 7) ☐ Claim(s) is/are objected	6) Claim(s) 1-13,15 and 16 is/are rejected.						
Application Papers							
9) The specification is objected to 10) The drawing(s) filed on 03 February Applicant may not request that an Replacement drawing sheet(s) income 11) The oath or declaration is object.	uary 2005 is/are: a)∑ v objection to the drawin luding the correction is r	g(s) be held in abeyance. See required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).			
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Res Information Disclosure Statement(s) (PTO-1 Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate)-152)			

DETAILED ACTION

This is a response to the RCE filed 7/25/2005. Claims 1-13 and 15-16 are pending and are under examination.

Specification

1. The disclosure is objected to because of the following informalities: page 4, under the Brief Description of the Drawings, "figure 2 illustrates" is incorrect. The drawings show figures 2a to 2c. It is suggested to change "figure 2" to --figures 2a-2c--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Hesson (USP 5,165,046), prior art of record.

Figure 4 of Hesson shows an output buffer having crowbar current eliminated comprising a plurality of multiplexer circuits (41, 42), common input node (IN), an upper output node (output of the inverter 46), lower output node (output of the inverter 47), wherein the plurality of MUXs are configured to generate output signals upper output node (UOP) and lower output node (LOP) in response to an input signal at the input node such that during an input signal transition at the input node, a control electrode for UOP and the LOP are driven towards opposite voltage

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supplies (figure 3 or as seen from figure 4, the voltages VDD and VSS are simultaneously applied to the gate of the transistors Q1 and Q2, respectively, when the input signal is at transition) so that the UOP and the LOP are never on simultaneously as called for in claims 1-2, 6-7 and 10-13.

Regarding claim 3, the output signals at UOP and LOP are CMOS compatible output predriver signals.

Regarding claims 4 and 9, the plurality of MUXs are configured as predriver comprising a CMOS UOP predriver and CMOS LOP predriver.

Regarding claims 5, 8 and 15-16, the CMOS UOP predriver 41 controls PMOS Q1, CMOS LOP predriver 42 controls NMOS Q2.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan T. Lam Primary Examiner Art Unit 2816

8/29/2005